AMENDMENTS TO THE CLAIMS

1-29. (Cancelled)

30. (Currently Amended) A method for recording a digital data stream on a recording

medium, comprising:

recording the digital data stream by dividing the digital data stream into stream objects

each comprising one or more stream object units;

recording common information for the stream objects; and

recording stream time map information in a stream information file of the recording

medium, the stream time map information including a time mapping list having time search

information for searching the stream objects,

wherein the time mapping list includes one or more sub time mapping lists, and each of

the sub time mapping lists has the time search information for searching the corresponding one

of the stream object units.

31. (Previously Presented) The method of claim 30, wherein the step of recording the

stream time map information includes recording stream time map general information in the

stream information file, the stream time map general information including management

information of the stream objects recorded on the recording medium.

Docket No.: 1630-0367PUS1

Application No. 09/467,965 Amendment dated February 21, 2008 Reply to Office Action of November 21, 2007

32. (Previously Presented) The method of claim 31, wherein each of the stream objects has a plurality of stream object units, and the time mapping list has the time search information for searching each of the stream object units.

33. (Cancelled)

- 34. (Previously Presented) The method of claim 30, wherein the step of recording the common information includes recording a table of content in an application information file of the recording medium.
- 35. (Previously Presented) The method of claim 34, wherein the table of content includes random-access entry point information that allows random access to the recorded data stream.
- 36. (Previously Presented) The method of claim 30, wherein the step of recording the common information includes recording the common information in a common information file of the recording medium, the common information including a playlist for the stream objects.
- 37. (Previously Presented) The method of claim 36, wherein the common information further includes presentation sequence information of the recorded digital data stream.

Application No. 09/467,965 Amendment dated February 21, 2008 Reply to Office Action of November 21, 2007

38. (Currently Amended) An apparatus for recording a digital data stream on a

recording medium, comprising:

a recording unit to record the digital data stream by dividing the digital data stream into

stream objects each having one or more stream object units, to record common information for

the stream objects, and to record stream time map information in a stream information file of the

recording medium, the stream time map information including a time mapping list having time

search information for searching the stream objects,

wherein the time mapping list includes one or more sub time mapping lists, and each of

the sub time mapping lists has the time search information for searching the corresponding one

of the stream object units.

39. (Previously Presented) The apparatus of claim 38, wherein the recording unit for

recording the stream time map information records stream time map general information in the

stream information file, the stream time map general information including management

information of the stream objects recorded on the recording medium.

40. (Previously Presented) The apparatus of claim 39, wherein each of the stream

objects has a plurality of stream object units, and the time mapping list has the time search

information for searching each of the stream object units.

41. (Cancelled)

Docket No.: 1630-0367PUS1

Application No. 09/467,965

Amendment dated February 21, 2008

Reply to Office Action of November 21, 2007

42. (Previously Presented) The apparatus of claim 38, wherein the recording unit for

recording the common information records a table of content in an application information file of

the recording medium.

43. (Previously Presented) The apparatus of claim 42, wherein the table of content

includes random-access entry point information that allows random access to the recorded data

stream.

44. (Previously Presented) The apparatus of claim 38, wherein the recording unit for

recording the common information records the common information in a common information

file of the recording medium, the common information including a playlist for the stream objects.

45. (Previously Presented) The apparatus of claim 44, wherein the common

information further includes presentation sequence information of the recorded digital data

stream.

46. (Currently Amended) A recording medium for recording digital data using a

digital data recorder, comprising:

a digital data stream divided into stream objects each comprising one or more stream

object units and recorded on the recording medium;

common information recorded on the recording medium for the stream objects; and

Docket No.: 1630-0367PUS1

Application No. 09/467,965

Amendment dated February 21, 2008

Reply to Office Action of November 21, 2007

stream time map information recorded in a stream information file of the recording

medium, the stream time map information including a time mapping list having time search

information for searching the stream objects,

wherein the time mapping list includes one or more sub time mapping lists, and each of

the sub time mapping lists has the time search information for searching the corresponding one

of the stream object units.

47. (Previously Presented) The recording medium of claim 46, wherein stream time

map information includes stream time map general information in the stream information file,

the stream time map general information including management information of the stream

objects recorded on the recording medium.

48. (Previously Presented) The recording medium of claim 47, wherein each of the

stream objects has a plurality of stream object units, and the time mapping list has the time

search information for searching each of the stream object units.

49. (Cancelled)

50. (Previously Presented) The recording medium of claim 46, wherein the common

information includes a table of content recorded in an application information file of the

recording medium.

Application No. 09/467,965 Docket No.: 1630-0367PUS1

Amendment dated February 21, 2008

Reply to Office Action of November 21, 2007

51. (Previously Presented) The recording medium of claim 50, wherein the table of

content includes random-access entry point information that allows random access to the

recorded data stream.

52. (Previously Presented) The recording medium of claim 46, wherein the common

information is recorded in a common information file of the recording medium, the common

information including a playlist for the stream objects.

53. (Previously Presented) The recording medium of claim 52, wherein the common

information further includes presentation sequence information of the digital data stream.